FO-DVI-1080LC Series

User's Guide

Models

FO-DVI-1080LC-Set

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Section 1 – Getting Started

1.1 Important Safeguards

Please read all of these instructions carefully before you use the device. Save this manual for future reference.

What the warranty does not cover

- Any product, on which the serial number has been defaced, modified or removed.
- Damage, deterioration or malfunction resulting from:
    - Accident, misuse, neglect, fire, water, lightning, or other acts of nature, unauthorized product modification, or failure to follow instructions supplied with the product.
    - Repair or attempted repair by anyone not authorized by us.
    - Any damage of the product due to shipment.
    - Removal or installation of the product.
    - Causes external to the product, such as electric power fluctuation or failure.
    - Use of supplies or parts not meeting our specifications.
    - Normal wear and tear.
    - Any other causes which does not relate to a product defect.
- Removal, installation, and set-up service charges.

1.2 Safety Instructions

- Do not dismantle the housing or modify the module.
- Dismantling the housing or modifying the module may result in electrical shock or burn.
- Refer all servicing to qualified service personnel.
- Do not attempt to service this product yourself as opening or removing housing may expose you to dangerous voltage or other hazards
- Keep the module away from liquids.
- Spillage into the housing may result in fire, electrical shock, or equipment damage. If an object or liquid falls or spills on to the housing, unplug the module immediately.
- Have the module checked by a qualified service engineer before using it again.

1.3 Regulatory Notices Federal Communications Commission (FCC)

This equipment has been tested and found to comply with Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.
Any changes or modifications made to this equipment may void the user's authority to operate this equipment.

1.4 Introduction

Avenview FO-DVI-1080LC Series with fiber optic cable system lets you extend digital flat panel signal up to 1000 meters (3260 feet).

- High Speed and long distance transmission by LC type Multi-Mode fiber
- Use standard DVI Plug and LC Fiber connector
- R, G, B, Clock signal is transmitted separately by Multi-Mode optical Fiber
- Supports up to WUXGA (1920 x 1200) resolution
- Self detecting function for EDID
- Optional external power supply (Automatic Power switch is included)

1.5 Package Contents

Before you start the installation of the converter, please check the package contents.

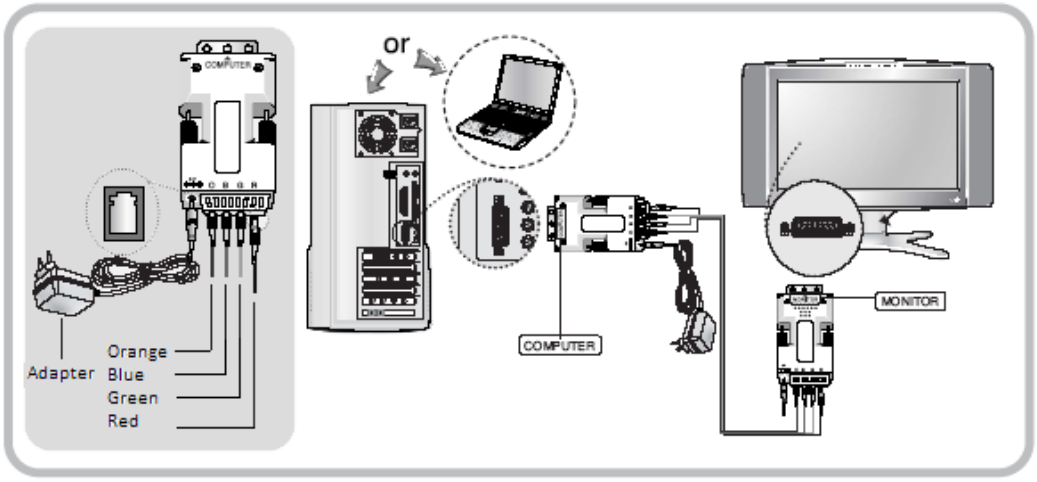
- Transmitter x 1 pc
- Receiver x1 pc
- Power Adapter (5VDC, 1.2A)
- User's Manual

1.6 Before Installation

- Put the product in an even and stable location. If the product falls down or drops, it may cause an injury or malfunction.
- Don’t place the product in too high temperature (over 50°C), too low temperature (under 0°C) or high humidity.
- Use the DC power adapter with correct specifications. If inappropriate power supply is used then it may cause a fire.
- Do not twist or pull by force ends of the optical cable. It can cause malfunction.

1.7 Installation

This product is composed of a transmitter and a receiver. The transmitter should be connected to the computer’s DVI Port and the receiver should be connected the DVI Port of the digital display device. Avenview FO-DVI-1080LC Transmitter is designed to be used with the LC type standard optical cable. It is marked with R, G, B, O. Connect “R” to Red color, “G” to Green color, “B” to blue and “O” to orange color connector.



Connection diagram of FO-DVI-1080LC

Use the DC adapter (included in the package) for the Receiver. The Transmitter which is connected to a computer uses power from the computer.

Avenview FO-DVI-1080LC is designed to self detect the resolution of the monitor and change the resolution accordingly. Follow these steps for connecting to a device:

1. Power on your display
2. Connect Transmitter to the DVI of display
3. Plug the DC power of Transmitter
4. Pull out after about 5 – 10 seconds for reading the EDID information from the display
5. Connect Transmitter to the PC and Receiver to the Display.
6. At the same time, connect DC power to the receiver
7. Connect the optical fiber between Transmitter and Receiver.
8. Restart the computer.

1.8 General Troubleshooting

Problem	Possible Solution
No Image	• Check if the PC Power is on • Check if connection to the computer and the monitor are correct. • Turn the PC Power off and on again.
Screen Defects Appear	• This product supports up to SXGA resolution. • Check the maximum resolution range of the graphics card.

Section 2: Specifications

Item	Description
Video Bandwidth	1.65Gbps (Single Link)
Connector	DVI 24Ping Plug and LC Connector
Power Consumption	0.75 Watt (max)
Supported Resolution and Distance	SXGA 1280 x 1024 @ 700 meters (2300 feet) UXGA 1600 x 1200 @ 500 meters / 1650 feet) WUXGA 1920 x 1200 @ 100 meters / 330 feet)

Optical

Optical Source	850nm VCSEL
O/E Converter	PIN Photo Diode
Fiber Type	50/125 or 62.5/125 LC Multi-Mode Fiber

Environmental

Operation	0˚ to 50˚C Degree
Storage	-20˚ to 70˚C Degree

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